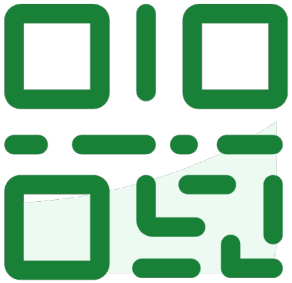
Development Tools

Notes for the SIT-DP module: **Developing Immersive Applications**

Created by: Chek Tien TAN

slido

Please download and install the
Slido app on all computers you use



Join at slido.com
#week03-dev-tools

ⓘ Start presenting to display the joining instructions on this slide.

Module Essentials

Let’s check whether you understand what to do in CSD312x...

slido

Please download and install the Slido app on all computers you use

The deliverable for the TP is

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

The deadline for the TP is

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

I need to use a WebXR-compliant framework for my Team Project

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

We will be assessed more favourably if we can demonstrate higher levels of immersion from our evaluation.

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

Which of the following content is suggested to be included in the TP report.md?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

When is IPA1 due?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

How many participants do I need for the user study in the TP?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

In CSD312x, a key learning objective is to be proficient in building WebXR applications.

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

In CSD312x, a key learning objective is to be proficient in implementation skills using typescript and Babylon.js API.

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

In CSD312x, it is important to understand the basics of how to setup a Typescript/Javascript project that interacts with Babylon.js .

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

For the IPAs , we will get feedback on our submission only after the deadline.

ⓘ Start presenting to display the poll results on this slide.

Team Project

- You can loan HMDs
- Submit through GitHub
- Note the dir tree
- The meat is in report.md
- Teams should be confirmed already
- Have an explicit system to delegate/manage work

IPA1

- Due next weekend
- We are available on Fri (and on GitHub discussions)

Development Tools

Let’s get acquainted with common tools for developing immersive apps

slido

Please download and install the
Slido app on all computers you use

When I run console.log("debug"), where can I see this "debug" message?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

You are building a VR application that includes a novel interaction not found in current VR applications. Your lab has funding to obtain resources deemed necessary for development. Which tool(s) can likely be used for you to base your development on?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

You are building a web-based VR experience and you want to focus on implementing the VR components. You need a modern open standard with a vibrant developer ecosystem that constantly updates the underlying tooling. What standard should you ideally target?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

In your VR app, realistic graphics is the most important and you need to have fine-grained control of GPU resources. You need an open standard with a robust community that actively maintains the underlying tooling. What standard should you ideally target?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

What is the most accessible tool for developers without coding experience?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

What is/are the key advantages of building a WebXR app?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

WebXR is an open-source 3D engine for building web-based XR applications

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

Babylon.js is an open standard for programming web-based XR applications

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

The Unity engine can be used to build WebXR applications

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the
Slido app on all computers you use

Babylon.js can be used to build Web-based AR applications

ⓘ Start presenting to display the poll results on this slide.

slido

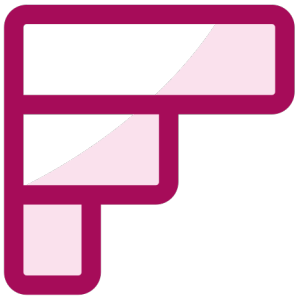
Please download and install the Slido app on all computers you use

WebXR is only meant for building desktop 3D web applications

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use

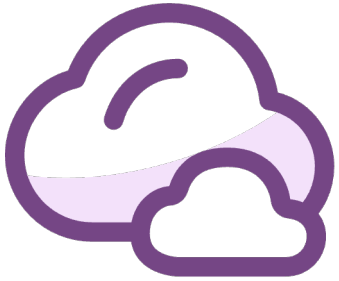


Rank from the best to worst tool ecosystem, in your perspective, for creating immersive applications

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use



What is your personal favourite tool ecosystem for creating interactive 3D (including immersive) applications?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the
Slido app on all computers you use

Audience Q&A

ⓘ Start presenting to display the audience questions on this slide.